



-power in control

ENGINE & GEN-SET CONTROLS



PPU Power Management, PPM

- Power management
- Generator protection
- Engine control and protection
- Busbar protection

PPM

The PPU Power Management (PPM) is a standard power management system for marine applications. The system has been designed to carry out generator control, supervision and protection functions of up to 8 generators running in parallel. The PPM supports three main systems, depending on the individual application.

The system performs PM features such as Multiple Master, load dependent start/stop, programmable start priority, heavy consumer control, blackout start sequence, supervision of a shore breaker and a bus coupler, symmetrical and asymmetrical load sharing, trip of non-essential load groups and programmable I/Os, etc.

The PPM system covers the requirements for most simple and medium-sized marine systems. For more complex applications, the Delomatic system can be offered.

The display is separate and can be mounted directly on the PPM base unit or in the switchboard via the display cable. Up to three displays can be connected to each main unit enabling the user interface to be placed at different locations (e.g. in the engine control room and on the bridge).

Basically, the PPM is a standard system, but the standard is not static. Therefore, DEIF constantly develops and optimises the PPM applications.

A separate powerful WebARM microprocessor allows easy access through an Ethernet port for all modern types of communication such as TCP/IP Modbus and TCP/IP XML. It is also possible to receive SMS or emails from the system in case of active alarms. The operator also has access to logging files such as data event logger, operational logger and error logger through a USB port in the front of the unit. For service and commissioning, our powerful utility software allows the user to see the actual status of all inputs and outputs in one view, define trending curves, change and save parameters, read the event log files and much more.

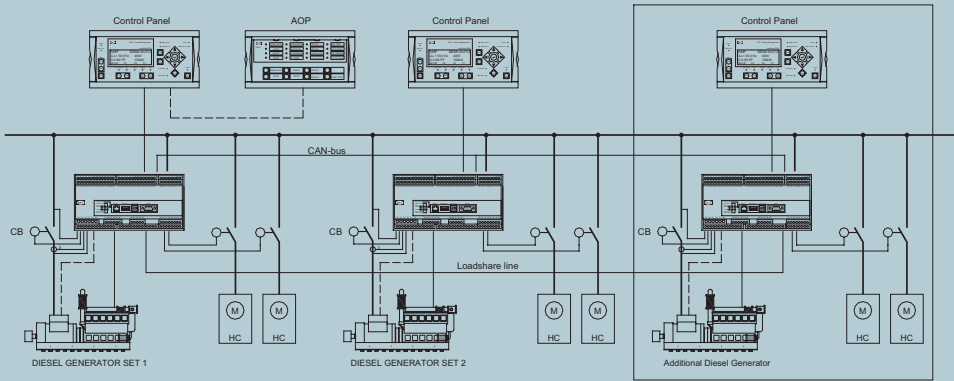
The PPM is type approved by major classification societies such as DNV, GL and LR.



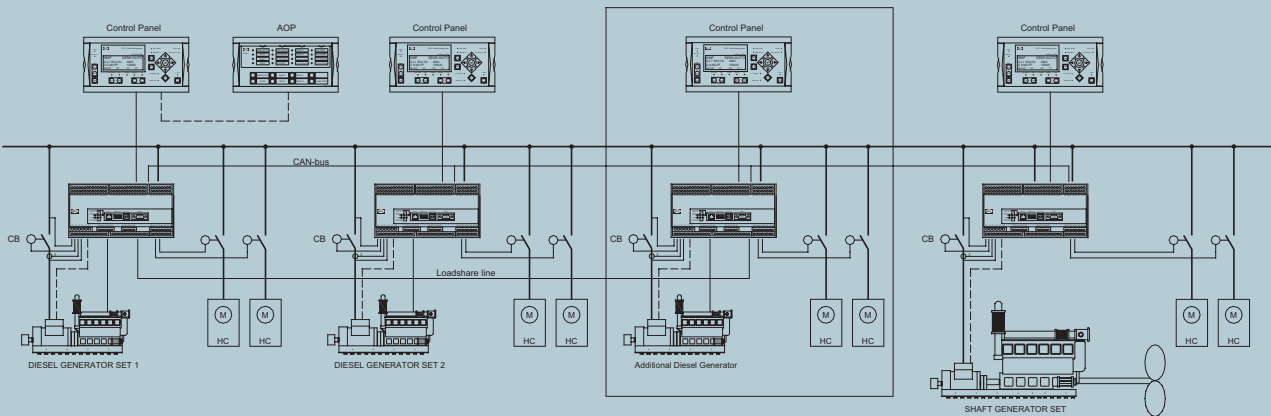
The PPM system has been especially designed to fulfill the demands for container vessels with focus on stability and operator-friendly operation without compromising on state-of-the-art technology.



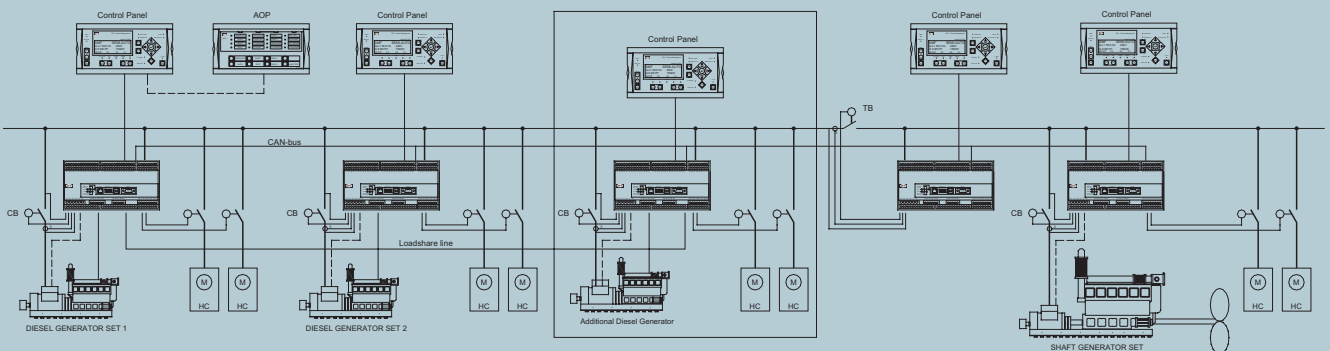
PPM



For applications with a shaft generator, our additional operator panel allows one-touch operation of the entire system. All automatic functions can be handled by pressing one push-button.



The integrated standard system allows easy and fast installation with a minimum of space demand. Configurable in- and outputs enable flexibility under commissioning and operation.



A typical application for a container vessel with fully automatic control of 8 diesel generators, one bus tie breaker and one shaft generator (PTO/PTH).

- Separate PMS processor
- Integrated standard system solution
- Bidirectional communication with AMS systems
- Display unit with two CAN bus ports
- Additional operator panel on CAN bus for power management control
- USB service port for DEIF utility software
- USB port for advanced logging (operational log, error log, blackbox recorder)
- Log of event with time stamp and belonging measurements
- SMS/email function

Founded in 1933, DEIF has more than 70 years of experience. Today, we are active on the international markets for engine & gen-set controls, marine bridge instrumentation, switchboard instrumentation and renewable energy controls.

It is our ambition to maintain and expand our position as one of the most trusted suppliers within our fields of operation. This goal will be reached by ensuring that DEIF continues to offer real competitive advantages to our customers by supplying superior product quality, the best and most flexible features and competitive pricing.



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